Lab Report for 23/03/24:

* All mass experiments completed for 0.05M copper concentration.
* 0.075M copper standard prepared using 1.873g of CuSO4.
* Solutions prepared and kept on shaker:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| pH | Mass | Copper Conc. | Solvent | Measured Mass |
| 2 | 0.075 | 0.05 | Water | 0.075 |
| 2 | 0.075 | 0.05 | 50% ethanol | 0.075 |
| 0.05M copper concentration completed | | | | |
| 2 | 0.025 | 0.075 | Water | 0.025 |
| 2 | 0.025 | 0.075 | 50% ethanol | 0.027 |
| 2 | 0.050 | 0.075 | Water | 0.053 |
| 2 | 0.050 | 0.075 | 50% ethanol | 0.052 |

* Absorbance-measured solutions:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Copper Conc. | pH | Mass | Solvent | Absorbance | Observations |
| 0.05 | 2 | 0.025 | Water | 0.063 | Light blue |
| 0.05 | 2 | 0.025 | 50% ethanol | 0.114 | Olive green |
| 0.05 | 2 | 0.050 | Water | 0.107 | Olive green |
| 0.05 | 2 | 0.050 | 50% ethanol | 0.162 | Olive green, medium turbidity |